Agenda

Subsystem Overview

Incremental Track Snapshot

CLS Design Issues

Prototype Status

Client Flavors During Release B Operations

- **Client Design WG**
- **Issue Resolution Process**
- **Current Topic List**

CLS Design Working Group (CDWG) - Charter and Objectives

Conduct the necessary requirements analysis, design and task analysis for each service or client feature addressed in this WG. These analyses will result in the functional design and requirements for each service. A Web page (off the ECS incremental track home page) will be created to facilitate ESDIS and tirekicker feedback as done for previous EP and prototype designs. Task analyses will additionally utilize feedback/comments from previous incremental track activities as they apply to the services addressed in this WG (EP2-EP6, PW1-PW2).

The WG will generate work flow diagrams illustrating the respective user task flow for each service. Use of paper mock-ups will facilitate the design of certain services. Issues to be addressed as part of the task analysis:

- Key-off point (where the user launches the service and under what context)

- Data flow and interfaces with Data Management and Data Server (as applicable)

- Re-entry point (where results are passed back to the user and under what context)

- Specific user steps

- Relevant automation and/or user preferences

The WG will NOT focus on screen "look and feel" design, nor publish screens on the web page unless it is vital for value-added feedback from the community. Current requirements will be reviewed during the design and new L4 requirements will be added as necessary. Essentially the WG will review the full list of all services currently specified by the requirements. Appendix F of DID 304 will be used as a starting point for identifying other services requiring the WG's review. Services and Issues listed below represent the high priority topics (see slide on Special Topics for CDWG).

CDWG Schedule

Internal objectives definition by 3/8

ESDIS review by 3/22

Assemble web page by 4/10

CDWG Announcement by 4/12

Kick-off meeting and initial web posting by 4/26

Working group underway 4/29 through 7/19

Integrate WG results with formal track design 5/20 through 8/23

- Note: CDWG results are needed NLT 7/31/96, as input to the CLS Design Review (9/17/96)

CDWG Participants

ECS Participants:
- Keith Bryant (Co-Chair)
- Lynne Case
- Show-Fune Chen
- Scott Diamond
- Ed Dombrowski (Co-Chair)
- Jan Dreisbach
- Giulietta Fargion
- Lisa Galaini
- Kevin Limperos
- John Lowry
- Ray Milburn
- Evelyn Nakamura
- Charlie Poole
- Jan Poston-Day
- Gil Tadmor (Co-Chair)
- John Ujhazy

Co-Chairs represent the CDWG Board
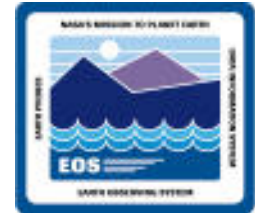
DAAC Liaisons:

ASF
Nettie Labelle-Hamer (Science)
Ellen Chilikas (Engineering)

EDC
Saud Amer (Science)
John Daucsavage (Engineering)

GSFC
A.K. Sharma (Science)
Carolyn Whitacker (Engineering)

JPL
Glenn Shirtliffe (Science,
  acting Engineering Liaison)

LaRC
Haldun Direskenelli (Science)
Lucy Lee (Engineering)

NSIDC
Siri Jodha Singh Khalsa (Science)
Marilyn Kaminsky (Engineering)

ORNL
Vickie Ng (Engineering Liaison,
  acting Science Liaison)

ESDIS:
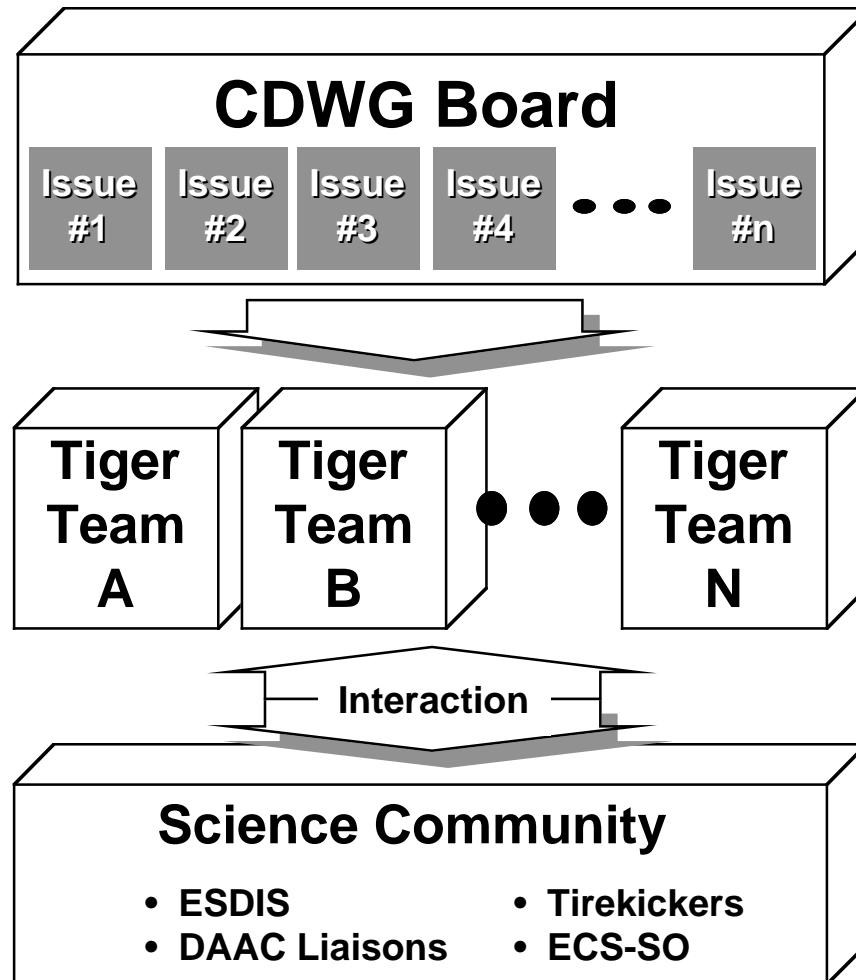- Ken McDonald
- Ted Meyer
- Mike Moore
- Robin Pfister

Tirekickers:
- assume all who regularly
   attended the PWs
- SSIG participants
- UMD

CDWG Structure

CDWG Board

| Issue #1 | Issue #2 | Issue #3 | Issue #4 | • • • | Issue #n |

Tiger Team A **Tiger Team B** • • • **Tiger Team N**

Interaction

Science Community

- ESDIS
- DAAC Liaisons
- Tirekickers
- ECS-SO

CDWG Kick-Off Meeting
(Date TBD Post CDR)

Agenda:

CDWG Charter

List of issues categorized into topics (service and/or function related)

Team Member Introduction (CLS, SO, URDB rep, ESDIS, I&T, HFE, DAAC Liaisons, etc.)

Logistics

>   **Sites / Meeting Locations (War Room) / Minimal Travel**

>   **Web page postings for current issues, status, and progress**
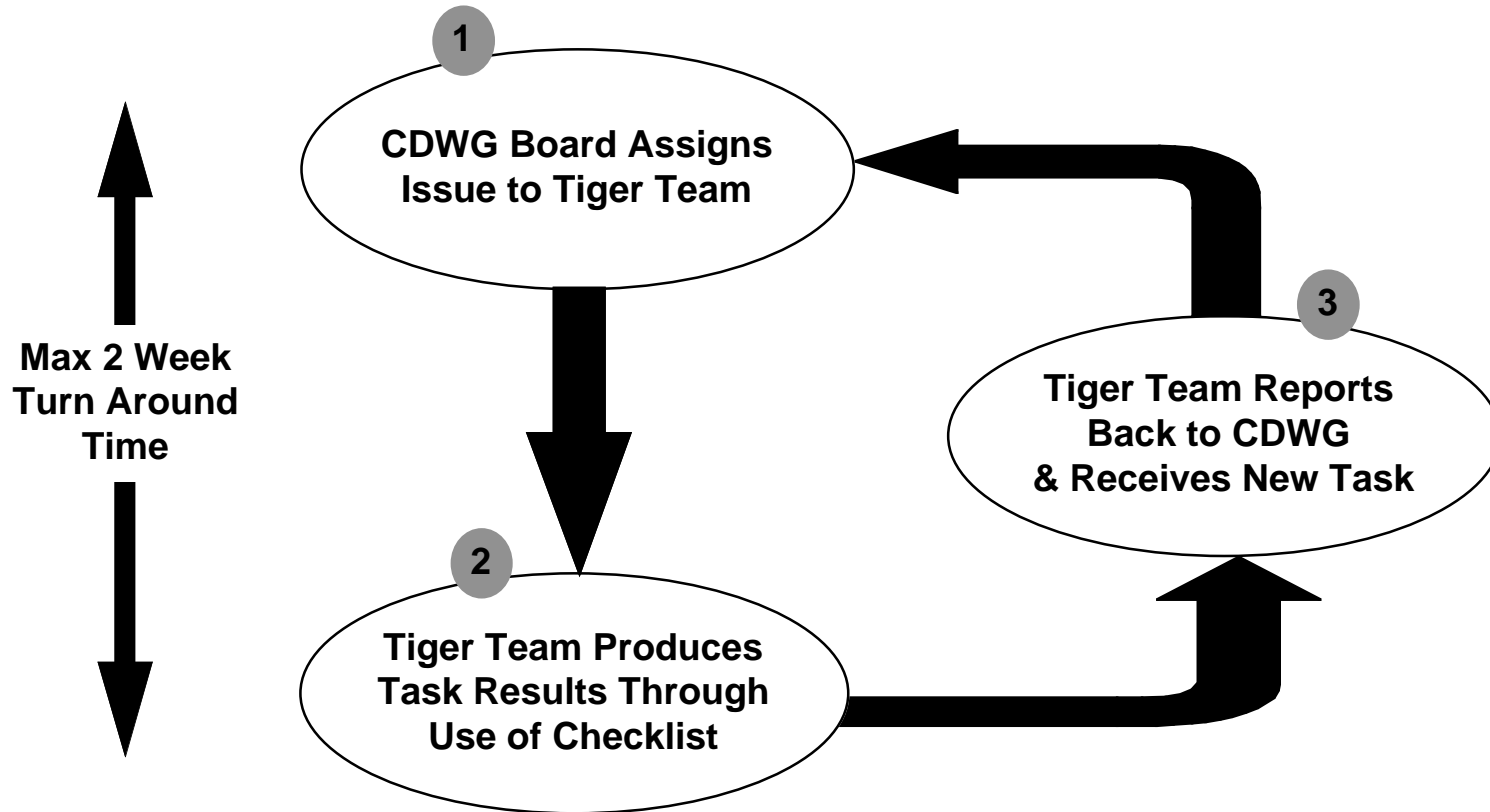>>   **(URL / Update Frequency / Feedback Procedure)**

>   **Meeting Frequency**

>   **Schedules (both broad Release B as well as WG specific)**

Issue Resolution Process

CDWG Issue Resolution Process

Max 2 Week Turn Around Time

1. CDWG Board Assigns Issue to Tiger Team

2. Tiger Team Produces Task Results Through Use of Checklist

3. Tiger Team Reports Back to CDWG & Receives New Task

- **Tiger Teams will be regulated in size and format.**
- **To facilitate the tight schedules imposed on issue resolution, each Tiger Team will follow a checklist.**

CDWG Tiger Team Checklist

- Task / Issue with initial definition given by CDWG Board — **Max 8 Hrs**

- Requirements Analysis of current RTM baseline (RBRs, L4s)

Web Posting Update

- Research   Community (Specify: ESDIS, SO, Tirekicker, DAAC Liaison)
  - URDB
  - CLS Issue List
  - CDR CLS DID 305
  - PW & EP feedback and reports
  - Ops and GUI Workshops
  - ECS Developers (Specify subsystem)
  - Other (Specify: _____)

Max 4 Days

- Define scope associated with this task to be implemented in Release B (Note: issues designated as beyond Release B will be entered into the URDB with the appropriate explanations)

Web Posting Update

- Revisit Requirements (L4s)
  1. No Change
  2. Modifications / Deletions to existing L4s
  3. New L4s required
  4. Any combination of the above

- Design
  - Work Flow
    - If issue at service / function level - provide work flow analysis (examples TBD)
    - If issue at sub-service level - provide key features (examples TBD)
  - Identify COTS (recommend trade studies)
  - Identify Reuse (Collaborative Prototyping, ET3, other....)

Max 4 Days

Web Posting Update

- Report back to CDWG Board and deliver results
  - This input is then given to the development leads to finalize their CSC design and implement the recommended work flow.

Max 8 Hrs

Special Topics - for CDWG and Prototyping

Subsetting

Subsampling

Coincident Search

Averaging

Format Translations

Research Planning (definition of search)

- Climatology / Phenomenology Searching (requires definitions in DDICT)

Access to Content-Based Metadata

Data Set Specific Access (Advance Search)

Direct Order of Specific Granule and/or Data Collection

Search Refinement Process (based on preceding search)

Browse (Legends, Descriptions)

Subscriptions (Algorithms, Data, Docs, other?)

Document Search & Display (list types, sources, web servers required)

Session Management

Report Generation (Production History, etc.)

Special Topics - for CDWG and Prototyping (cont.)

User notification of large number of returned results (display first batch, then allow to get next until reach end of entire result set)

Aliasing Service

File Naming (System wide convention in addition to user controlled locally)

User notification of product order billing options (price, shipping address, media, estimated time-to-ship)

Find box for attribute-value searches

Requirements (current RBRs/L4s, stats on met/partially met, plans for new L4s)
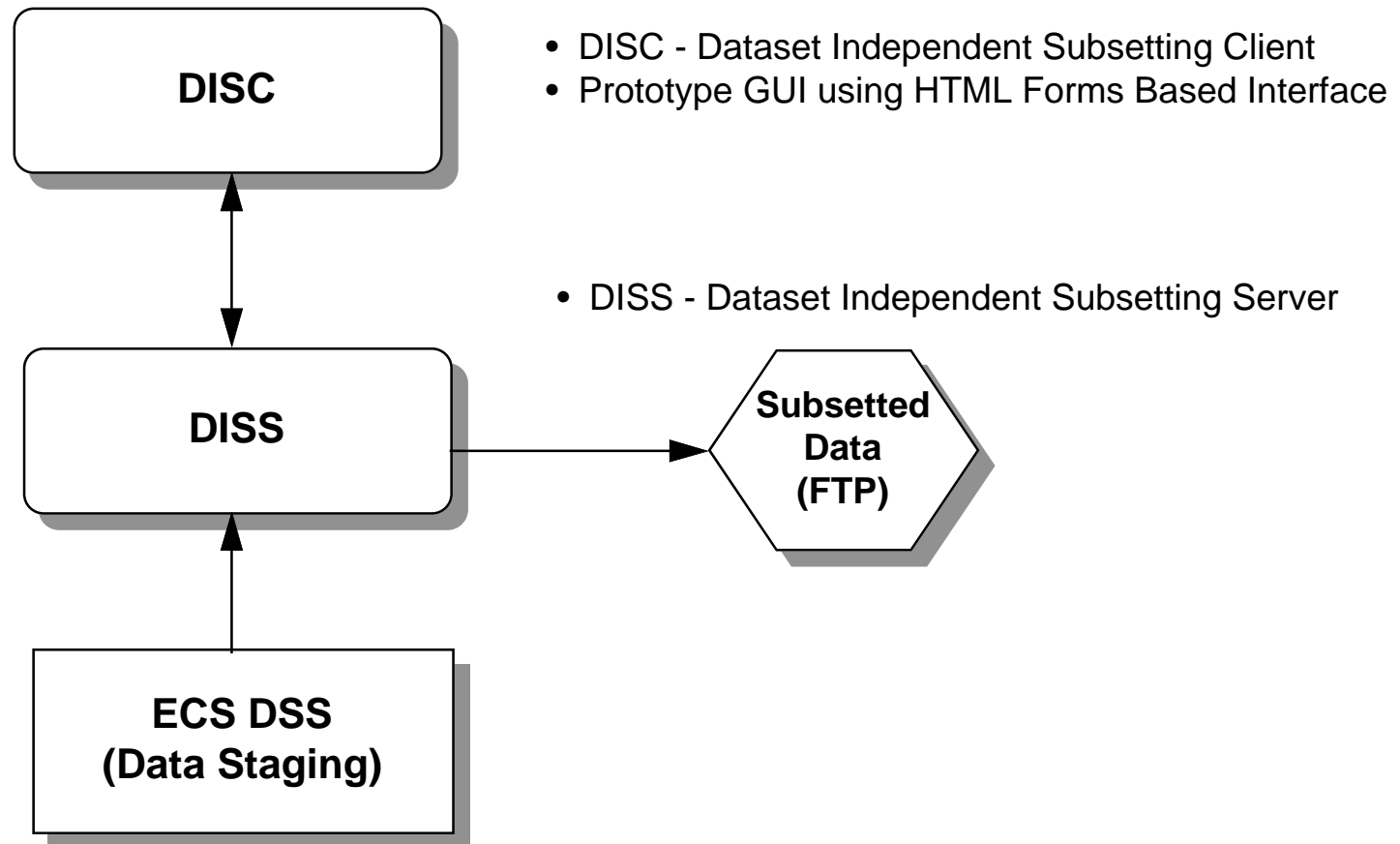
DESKT Tool Integration

- HMI Design Issues
- Use of Icons on Desktop

CLS Tool Integration

- EOSView / ESST
- ESST / Data Dictionary
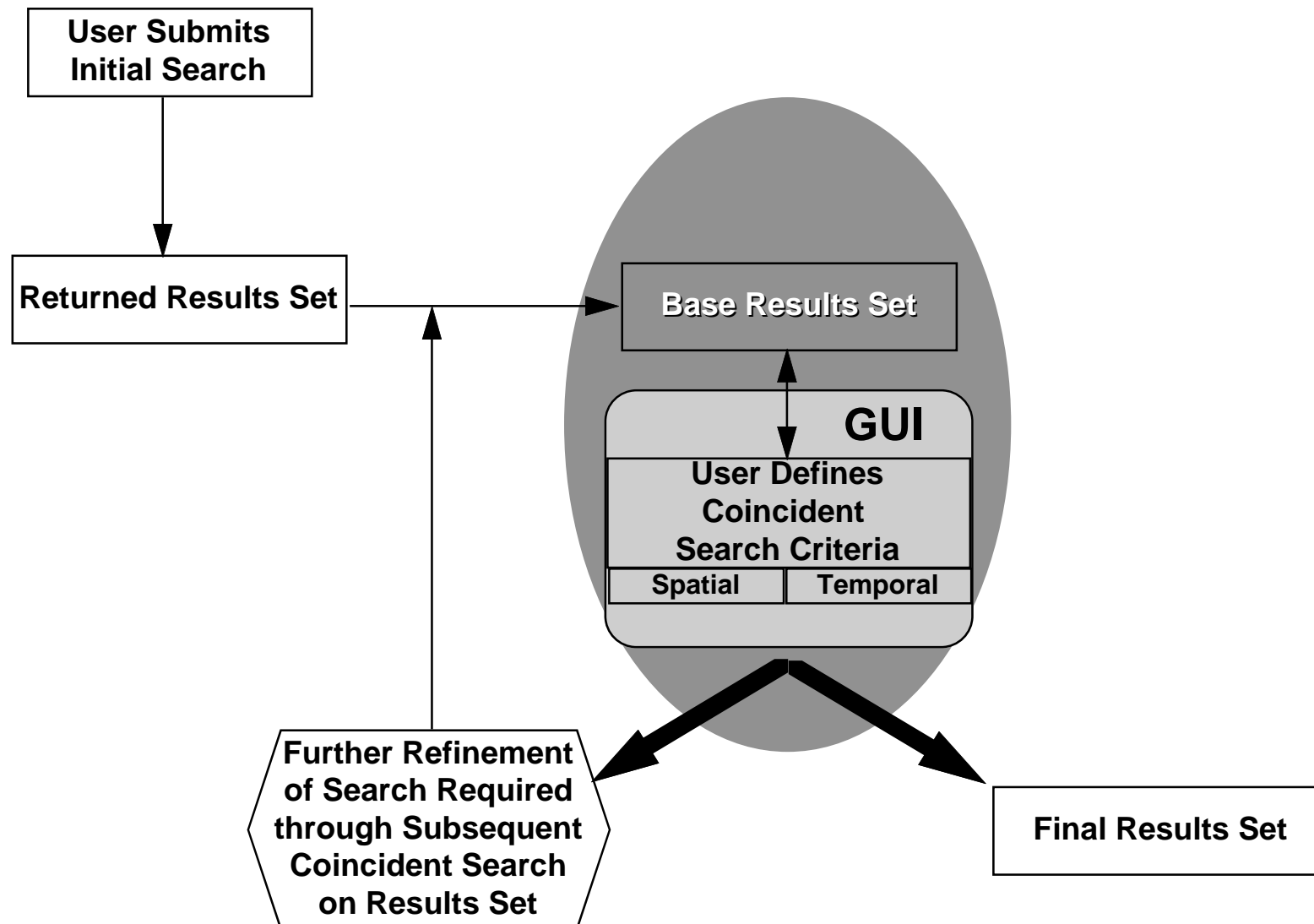- EOSView / Data Dictionary
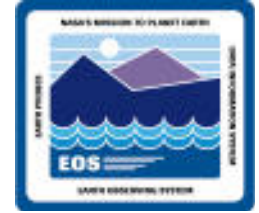- ESST / Advertiser

Subsetting

DISC

- DISC - Dataset Independent Subsetting Client
- Prototype GUI using HTML Forms Based Interface

- DISS - Dataset Independent Subsetting Server

DISS

Subsetted Data (FTP)

ECS DSS (Data Staging)

Coincident Search (Basic Example)

User Submits Initial Search

Returned Results Set

Base Results Set

GUI

User Defines Coincident Search Criteria

| Spatial | Temporal |

Further Refinement of Search Required through Subsequent Coincident Search on Results Set

Final Results Set

Research Planning

Operator to define phenomenon associated with the granule in the DDICT such as:

- name
- description
- area of interest
- temporal component

User will be able to search on this information

Issues:

- Further definition of data to be stored in DDICT
- Ability of Operators to modify previous entries at a later stage
- User definition of research planning